Technical sheet:

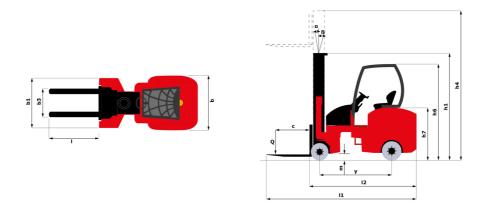
## **EMA II 18 HL-1**





		EMA II 18 HL-1 C	EMA II 18 HL-1 Created on June 16, 2025 at 10:06 PM UTC				
	Technical characteristics		Metric				
1.1	Manufacturer		Manitou				
1.2	Model Name		EMA II 18 HL-1				
1.3	Power source		Electrical				
1.4	Operator type		Seated				
1.5	Max. capacity	Q	1750 kg				
1.6	Load center of gravity	C	500 mm				
1.8	Load distance, centre of drive axle to fork	X	308 mm				
1.9	Wheelbase	٧	1745 mm				
	Weight						
2.1	Service weight		6900 kg				
2.2	Weight on front axle (laden) / rear axle (laden)		4200 kg / 4500 kg				
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2200 kg / 4700 kg				
	Wheels						
3.1	Tires type		Solid tires				
3.2	Dimensions of front wheels		412 x 178				
3.3	Dimensions of rear wheels		457 x 178				
3.5	Number of front wheels / rear wheels		2/2				
3.5.2	Number of drive wheels		2				
3.6	Front wheel gauge	b10	1110 mm				
3.7	Rear wheel gauge	b11	1250 mm				
3.7	Dimensions	DII	1230 111111				
4.7	Height of overhead guard (cabin)	h6	2260 mm				
4.7		h7	1200 mm				
4.8	Seat height/stand height	11	3740 mm				
4.19	Overall length	12	2590 mm				
4.20	Length to face of forks  Overall width	b1	1250 mm				
4.21			40 mm x 125 mm x 1150 mm				
	Forks section / width / length	s / e / I	40 mm x 125 mm x 1150 mm				
4.23	Fork carriage ISO 2328 (class/form) A/B	10	2 860 mm				
4.24	Fork carriage width	b3					
4.31	Ground clearance below mast	m1	50 mm				
4.32	Ground clearance at centre of wheelbase	m2	130 mm				
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	1950 mm				
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm				
5.1	Performances		9 km/h-9.50 km/h				
	Travel speed (laden / unladen)						
5.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s				
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s				
5.7	Gradeability (laden / unladen)		8 % / 10.50 %				
5.10	Service brake		Hydraulic				
	Engine		40.17				
6.1	Drive motor rating S2 60 min		10 kW				
6.2	Lift motor rating at \$3 15%		9 kW				
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595				
6.4	Battery voltage / capacity		48 V / 775 Ah				
6.5	Battery weight (+/- 5%)		1435 kg				
	Miscellaneous						
8.1	Type of drive control		Mosfet AC speed controller				
8.2	Working hydraulic pressure for attachments		200 bar				
8.3	Oil flow rate for attachments		25 l/min				
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB				
8.4	Sound level at the driver's ear according to DIN 12 053		73 dB				

EMA II 18 HL-1 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 80	FLT 84	FLT 86	FLT 90	FLT 95	FLT 100	FLT 102	FLT 106
α - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	٠	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	3720	3900	4020	4150	4500	4590	4690	4820
h2 - Mast free lift	mm	2900	3080	3200	3330	3650	3770	3870	4000
h3 - Mast lifting height	mm	8010	8400	8610	9000	9500	10020	10200	10560
h4 - Mast extended height	mm	8840	9230	9440	9830	10475	10850	11175	11535
Residual capacity with integrated side shift at max heigth	kg	1250	1150	1150	1000	1000	750	750	650





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